

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/EP2005/002432A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B01D45/16 H01M8/04 F02C7/052

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B01D H01M F02C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 158 449 A (SUN ET AL) 19 June 1979 (1979-06-19) claims 2,3; figure 2	1-5
A	GB 1 206 007 A (SWISS CONFEDERATION) 23 September 1970 (1970-09-23) page 2, line 58 - line 88; claim 11; figure 2 page 2, line 109 - line 116	1-17
A	DE 42 18 851 A1 (SCHMIDT, PAUL, DR.-ING., 4300 ESSEN, DE) 16 December 1993 (1993-12-16) figures 1-6	1-17
A	US 767 721 A (DENTON K. SWARTWOUT) 16 August 1904 (1904-08-16) figures 1-3	1-17



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

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Date of the actual completion of the international search

22 June 2005

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29/06/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 405 303 A (SUMITOMO LIGHT METAL INDUSTRIES LIMITED) 2 January 1991 (1991-01-02) claim 1	1-17

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2005/002432

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4158449	A	19-06-1979	AU 509304 B2	01-05-1980
			AU 3116277 A	07-06-1979
			BE 861573 A1	07-06-1978
			BR 7708123 A	25-07-1978
			CA 1103466 A1	23-06-1981
			DE 2753988 A1	20-07-1978
			ES 464744 A1	01-10-1979
			FR 2373322 A1	07-07-1978
			GB 1575130 A	17-09-1980
			IT 1090722 B	26-06-1985
			JP 1134824 C	14-02-1983
			JP 53107784 A	20-09-1978
			JP 57006373 B	04-02-1982
			NL 7713166 A ,B,	09-06-1978
			SE 424700 B	09-08-1982
			SE 7713808 A	08-06-1978
			ZA 7707122 A	27-09-1978
GB 1206007	A	23-09-1970	CH 472638 A	15-05-1969
			CH 470637 A	31-03-1969
			DE 1719486 A1	09-03-1972
			DE 1719485 A1	02-09-1971
			FR 1605133 A	16-03-1973
			FR 1605135 A	16-03-1973
			NL 6801079 A	29-07-1968
			NL 6801080 A	29-07-1968
DE 4218851	A1	16-12-1993	NONE	
US 767721	A		NONE	
EP 0405303	A	02-01-1991	JP 3015618 U	18-02-1991
			JP 6002726 Y2	26-01-1994
			DE 69008250 D1	26-05-1994
			DE 69008250 T2	24-11-1994
			EP 0405303 A1	02-01-1991
			US 5035730 A	30-07-1991